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Instrumentation and Methodologies Development of Magnetic Resonance

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editor

Dear Colleagues,

Magnetic resonance (MR) spectroscopy is a powerful tool with applications ranging from physics, chemistry, medicine, and industry, by providing precise structural information at the atomic level. Recent advances in MR spectroscopy have allowed us to move from the study of small molecules to that of biomacromolecules and material device characterization. The introduction of dynamic nuclear polarization (DNP) has tremendously increased the MR signal and made previously impractical experiments a reality.

The incorporation of arbitrary wave function generators (AWG) in EPR spectroscopy has made a great contribution to quantum information science, for example, demonstrating for the first time quantum spin teleportation in a molecular system tailored by chemical synthesis.

In this Special Issue, we invite submissions dedicated to new advances in methodology, instrumentation, and applications of magnetic resonance (MR) to the study of biology, materials and devices, quantum information science, medicine, drug development, and industrial application as well. Survey papers and reviews are also welcomed.

Dr. Raanan Carmieli
Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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